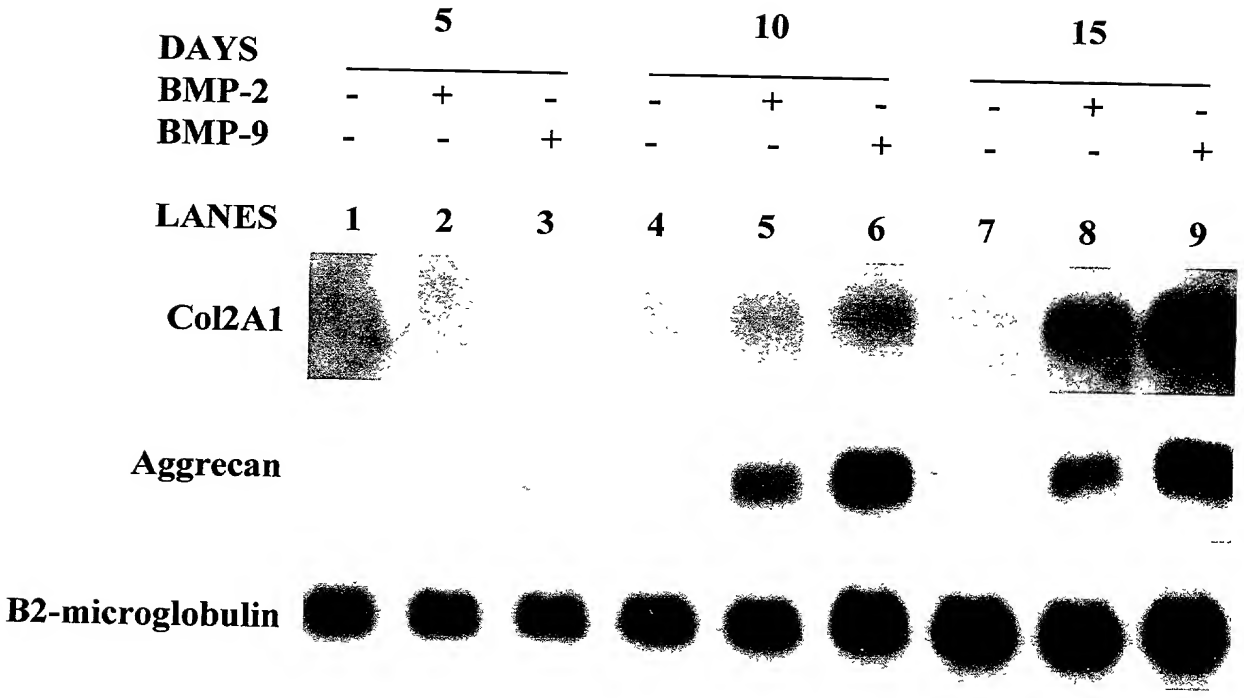
DAYS
5
10
15
BMP-2
- + - - + - - + -
BMP-9
- - + - - + - - +
LANES
1 2 3 4 5 6 7 8 9
Col2A1
Aggrecan
B2-microglobulin

FIG.1A

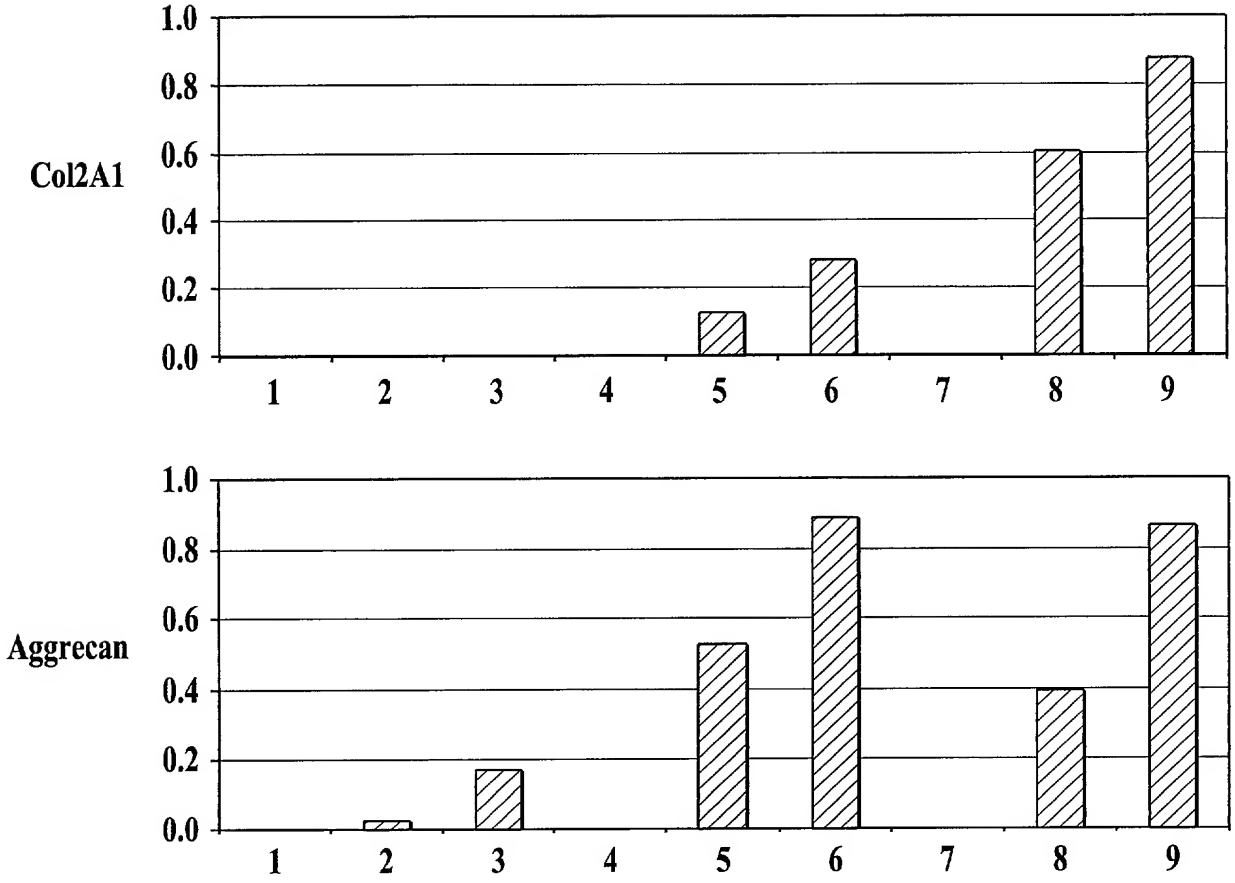
Col2A1
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
6
7
8
9
Aggrecan
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
6
7
8
9

FIG. 1B

20672P0 30882007

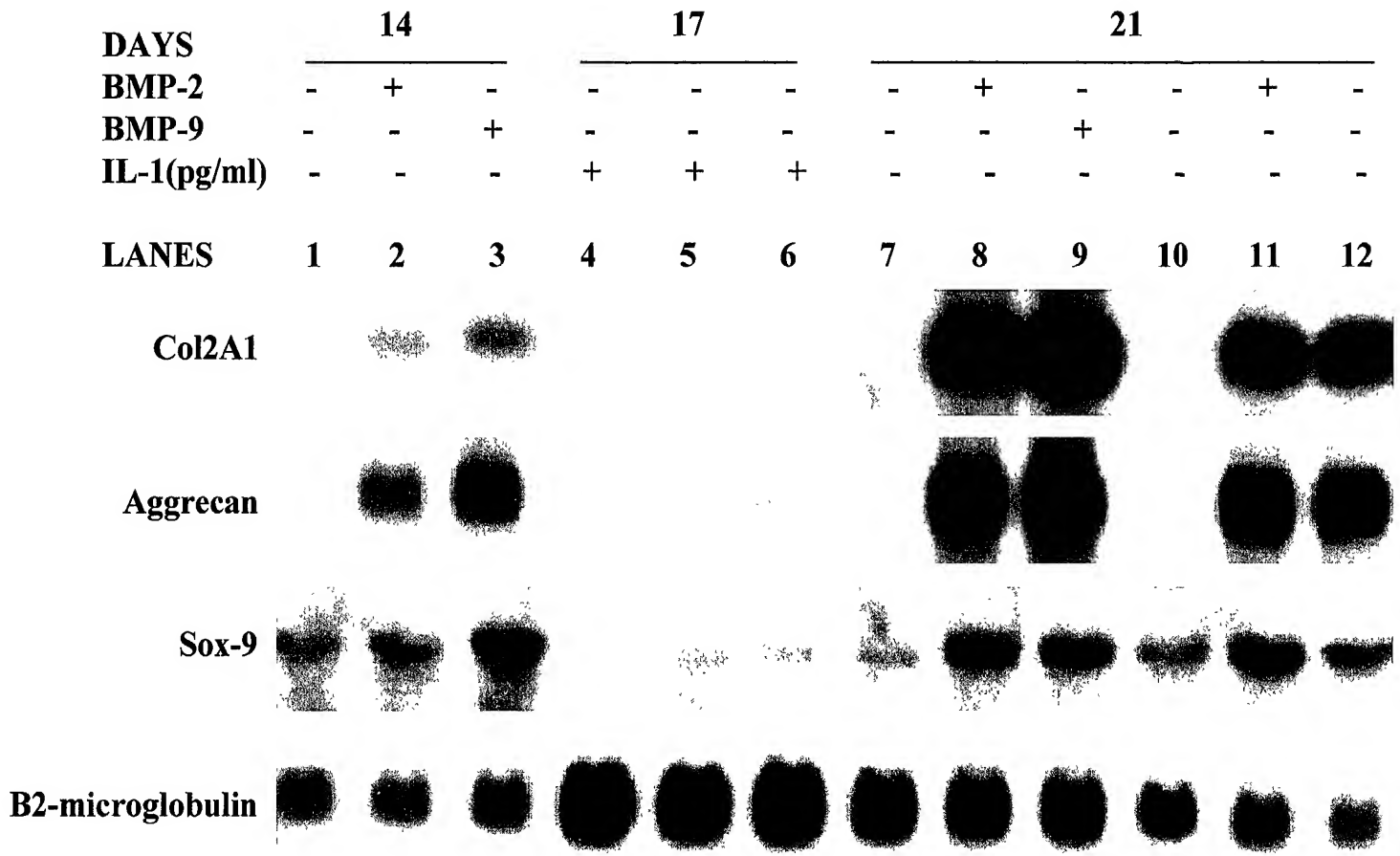

FIG.2A

Applicants: Manas K. Majumdar, *et al.*
For: Chondrogenic Potential of Human Bone Marrow-Derived CD105+ Cells by BMP
Docket No.: AM100581

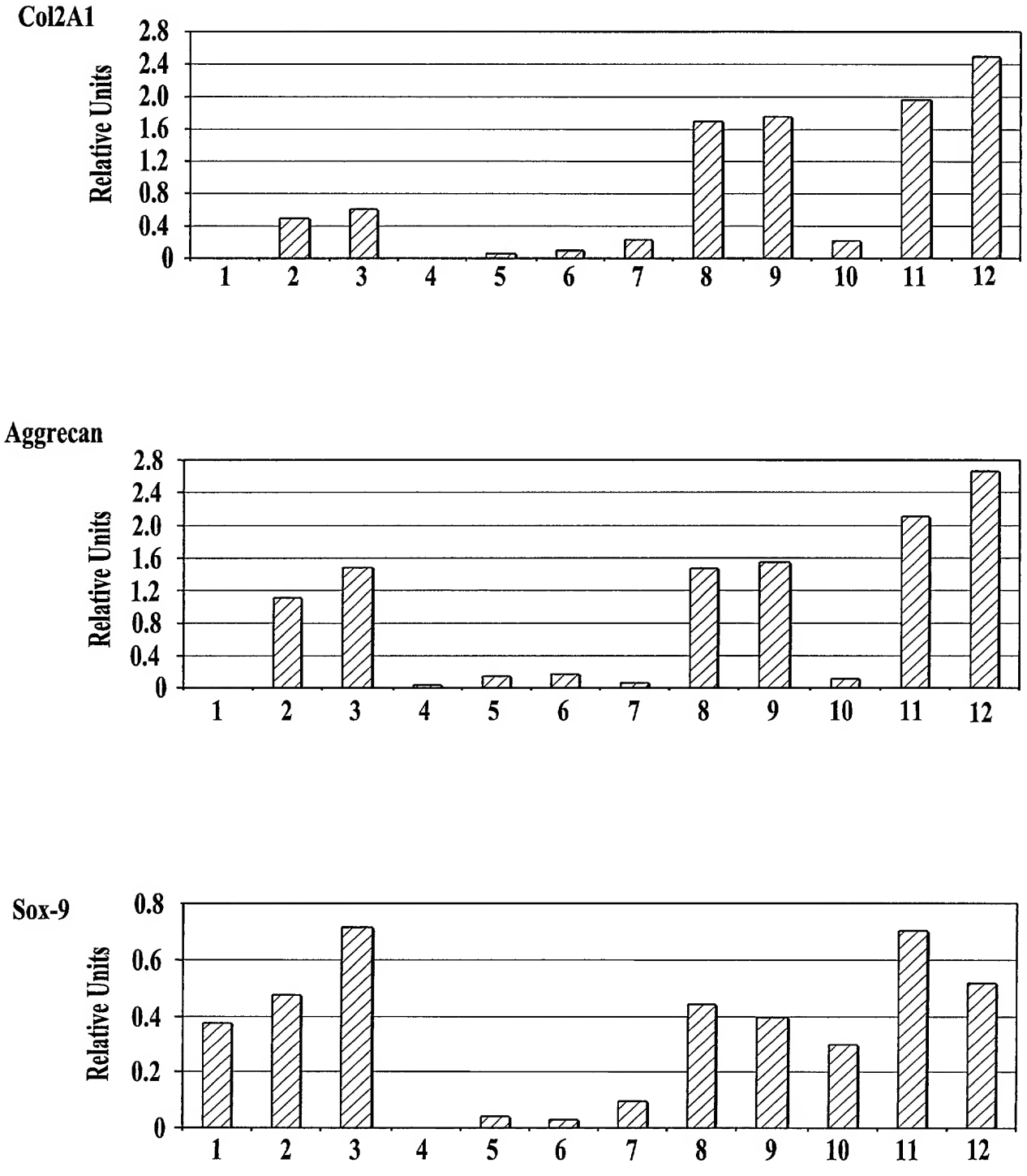
Col2A1
Relative Units
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0
1 2 3 4 5 6 7 8 9 10 11 12
Aggrecan
Relative Units
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0
1 2 3 4 5 6 7 8 9 10 11 12
Sox-9
Relative Units
0.8
0.6
0.4
0.2
0
1 2 3 4 5 6 7 8 9 10 11 12

FIG.2B

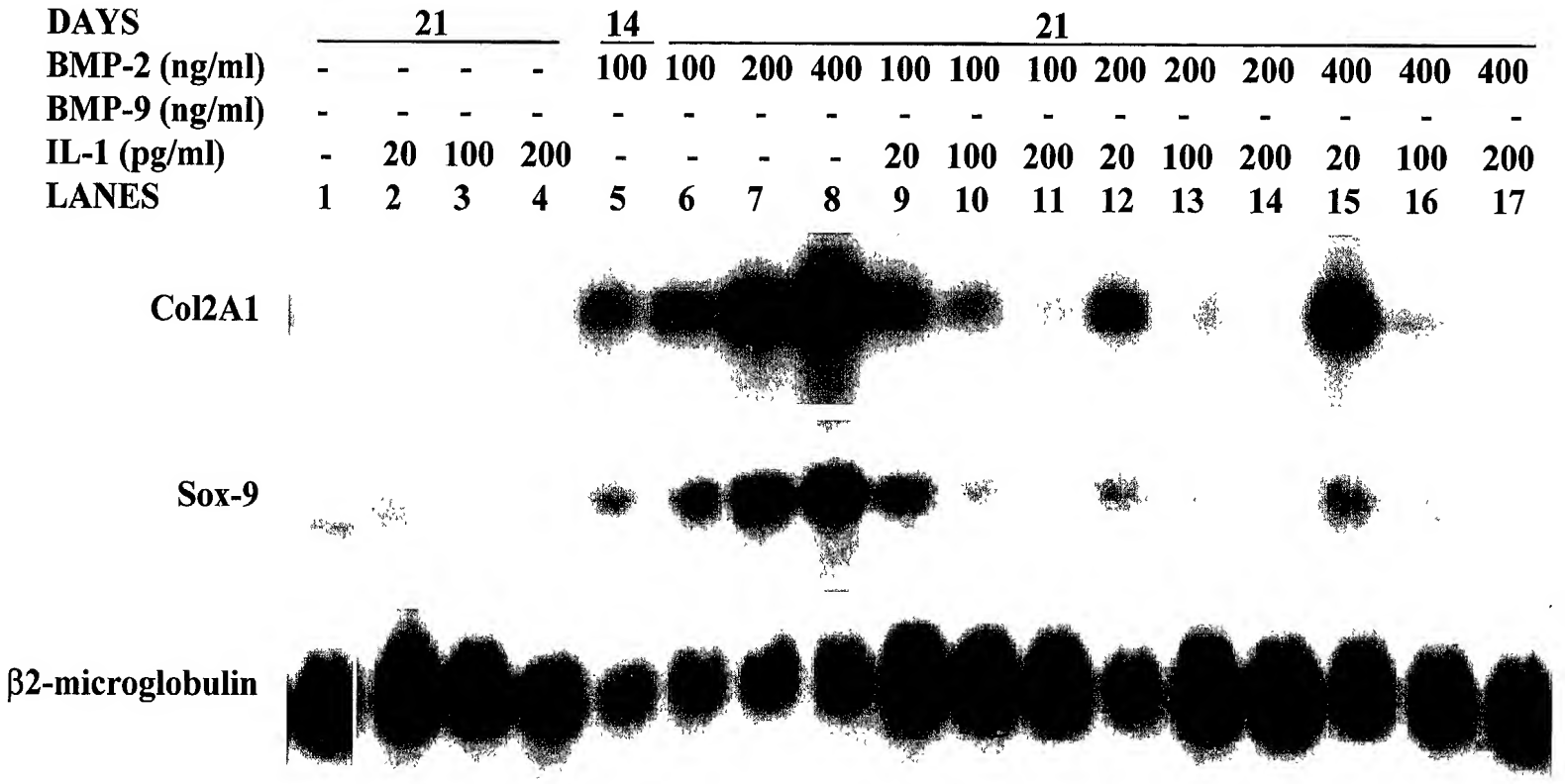
DAYS
21
14
21
BMP-2 (ng/ml) - - - - 100 100 200 400 100 100 100 200 200 200 400 400 400
BMP-9 (ng/ml) - - - - - - - - - - - - - - - - -
IL-1 (pg/ml) - 20 100 200 - - - - 20 100 200 20 100 200 20 100 200
LANES 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Col2A1
Sox-9
β2-microglobulin

FIG.3A

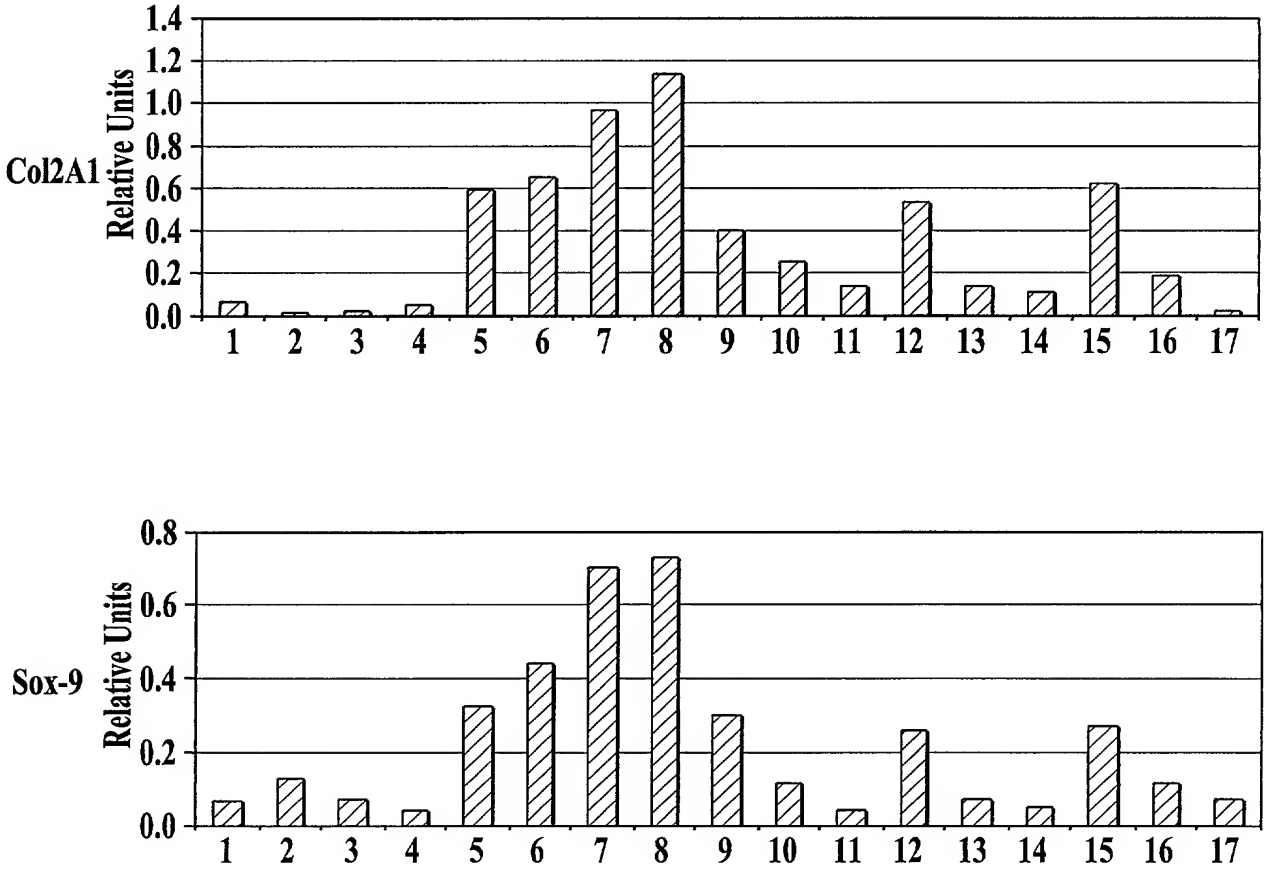
Col2A1
Relative Units
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Sox-9
Relative Units
0.8
0.6
0.4
0.2
0.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

FIG.3B

20672D1 20080207

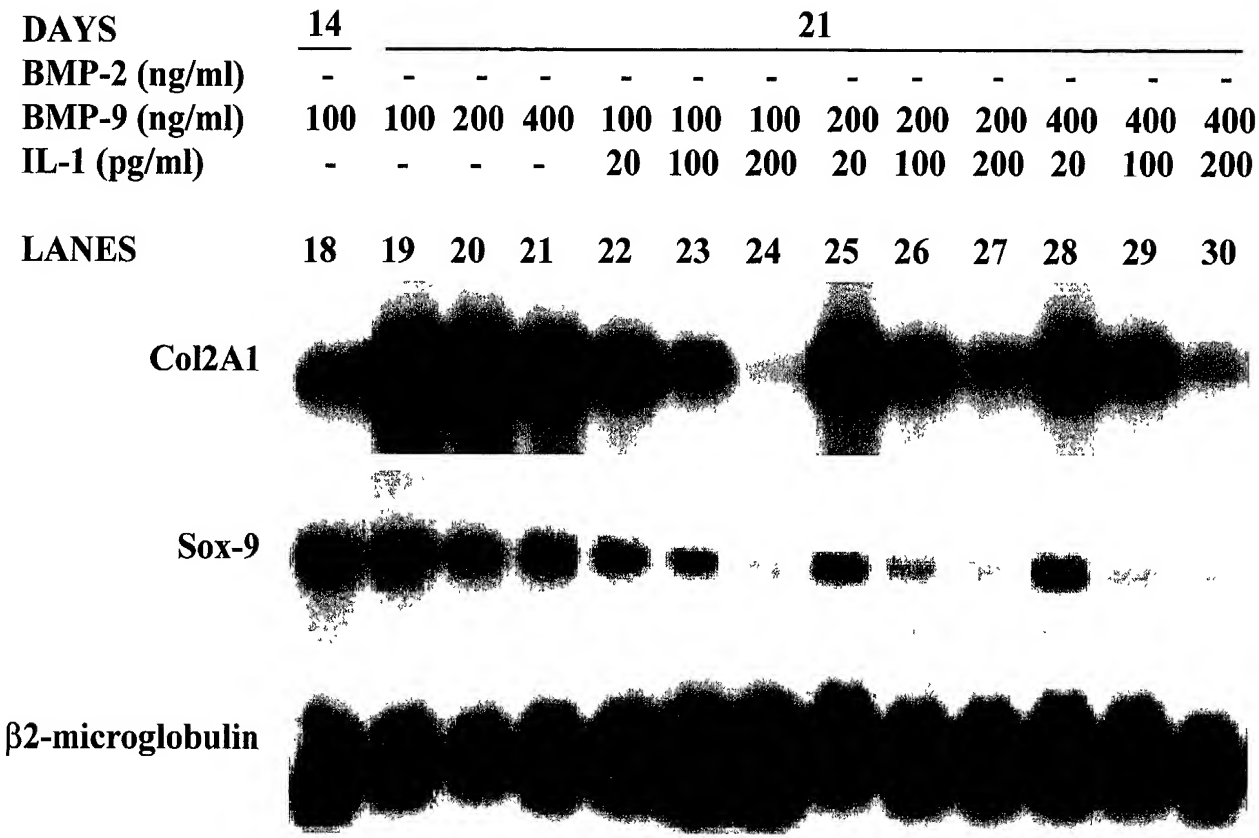

FIG.3C

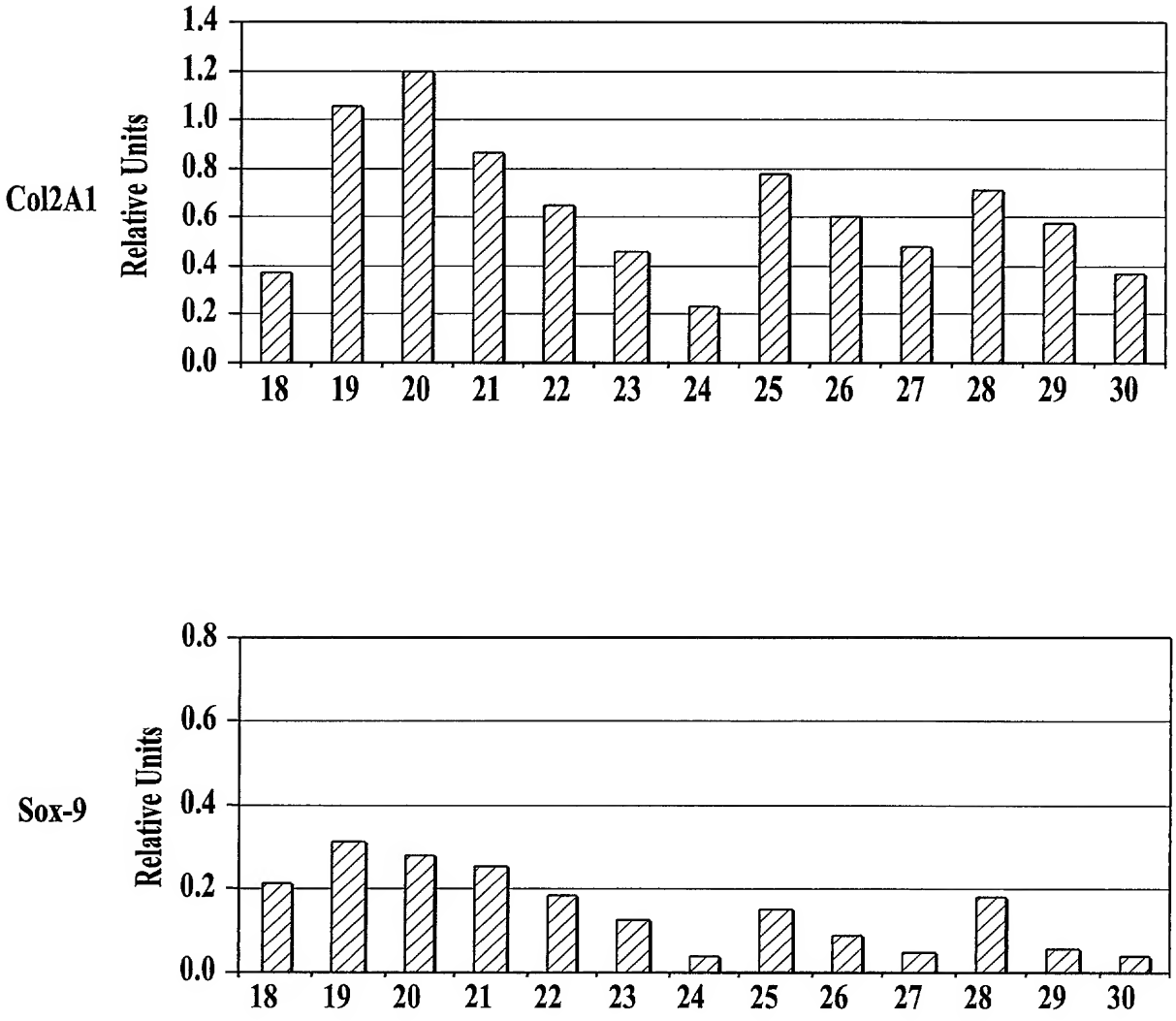
Col2A1
Relative Units
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
18 19 20 21 22 23 24 25 26 27 28 29 30
Sox-9
Relative Units
0.8
0.6
0.4
0.2
0.0
18 19 20 21 22 23 24 25 26 27 28 29 30

FIG.3D

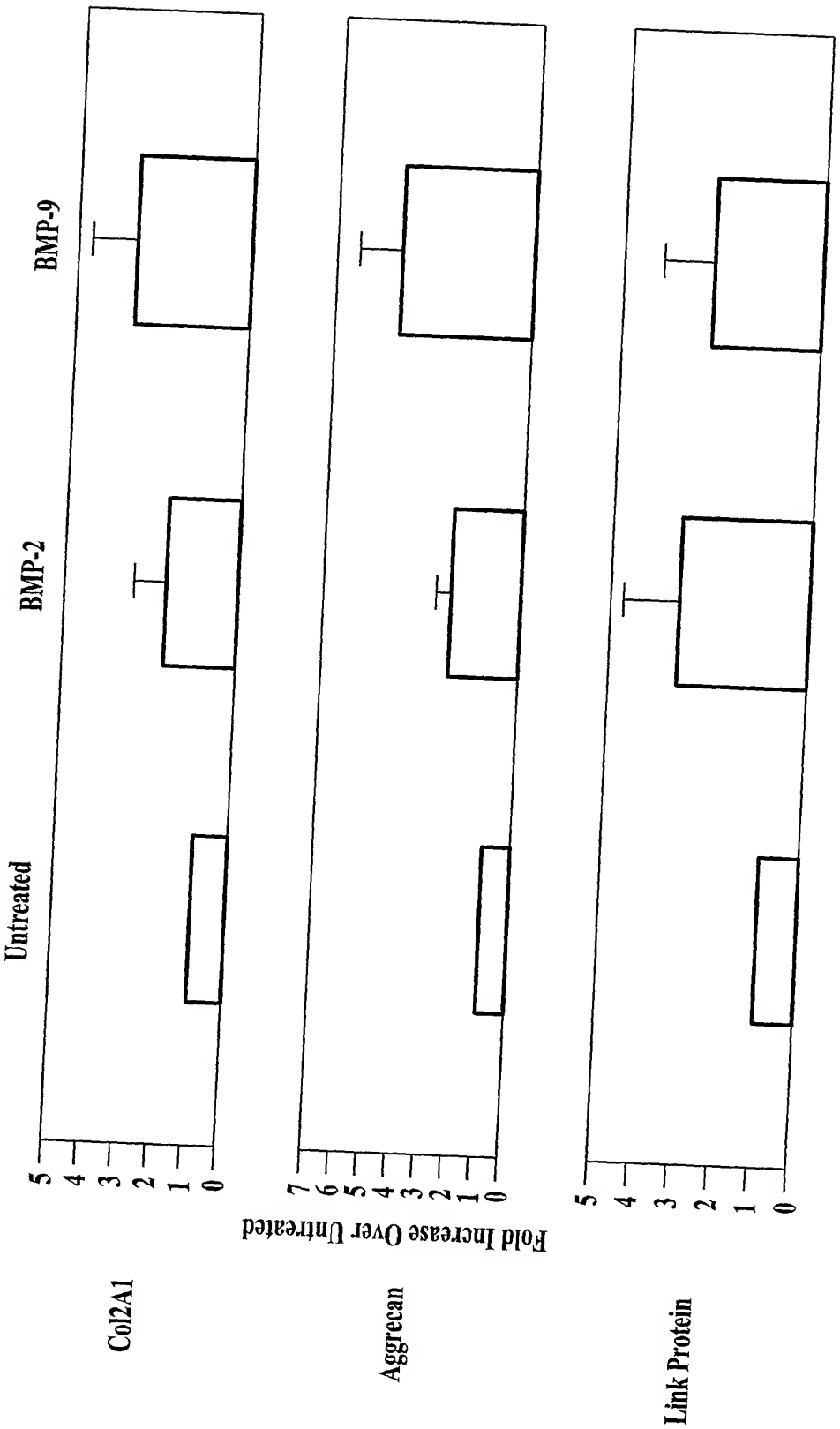
Untreated
BMP-2
BMP-9
Fold Increase Over Untreated
Col2A1
Aggrecan
Link Protein
0
1
2
3
4
5
6
7

FIG. 4